

REMARKS

The Examiner rejected claims 1-6 under 35 U.S.C. 102(e) as being anticipated by Watson. Applicant respectfully traverses this improper and nonobvious rejection by the Examiner.

In contradistinction to Applicant's claimed invention Watson discloses a method of evaluating the visual quality of processed digital video sequences that incorporates a model of human visual sensitivity to predict the visibility of artifacts by comparing a reference video with a processed video, i.e., there are two input video sources. Applicant's claimed invention is a method for rendering smooth interpolated video at a desired rate from a slower rate video source, i.e., there is only a single input video source.

The Examiner equates the sampler 30 of Watson to the up-sampling claimed by Applicant and the temporal filter 42 of Watson to the adaptive filtering claimed by Applicant. The sampler of Watson converts the three color channels of a video signal to a common spatial resolution, i.e., from 4:2:2 to 4:4:4 video, but does not up-sample a slower rate video to a desired rate, i.e., up-sampling from movie video at 24 frames/sec to NTSC video at 30 frames/sec, as claimed by Applicant.

Likewise the time filter of Watson subjects local contrast signals to temporal filtering using a second-order IIR filter, the filter being independent of the video frame rate, that allows different temporal filtering for each DCT frequency and each color. The adaptive filtering claimed by Applicant is for the purpose of providing interpolation of the up-sampled video, since there of necessity are repeat frames when the up-sampling occurs from a slower rate video to a higher rate video. This has nothing to

do with the temporal filtering done by Watson to implement human sensitivity to different time frequencies for light-adapted (contrast) DCT coefficients. Thus claims 1-6 are deemed to be allowable as being neither anticipated nor rendered obvious to one of ordinary skill in the art by Watson.

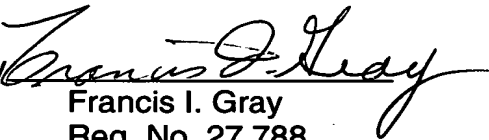
In view of the foregoing argument allowance of claims 1-6 is urged, and such action and the issuance of this case are requested.

Respectfully submitted,

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